

MARKED-UP COPY OF SPECIFICATION

The first end cap 102 also has numerous assembly advantages over the first end cap 12 of the prior art, and others like it. For instance, the assembly time required to rotatably fasten the threaded rod 124 in the first end cap 102 is greatly reduced. In order to assemble the threaded rod 124 of the present invention, the first end 166 is inserted into the hole 152 until the shoulder 168 170 abuts the inner surface of the endwall 146. The second end 174 of the threaded rod 124 is then positioned in the groove 164 between the shelves 162. The second end 174 is held in place by the retainer clip 126 which is fastened in place by, for example, the screws 128, which are easily accessible due to their proximity above the threaded rod 124. The first end 166 of the threaded rod 124 is perfectly aligned with the hole 152, and will remain so, because it is inserted for rotation therein.

MARKED-UP COPY OF AMENDED CLAIMS

1. (Amended) An extension arm for adjustably mounting a device to a support mount, said extension arm comprising:

a forearm extension having a first end for attachment to the device and a second end having an opening;

a first end cap including a first end cap body and a first end cap shaft, said first end cap shaft adapted for pivotable attachment pivotably attached to the support mount;

a second end cap including a second end cap body and a second end cap shaft having an axis, said second end cap shaft fixedly attached to said second end cap body and extending outwardly therefrom, said second end cap shaft pivotably received within said opening within said attached to the second end of said forearm extension whereby said forearm extension is pivotable about said axis of said second end cap shaft overlying said second end cap body between a plurality of radial positions;

an upper channel having a first end, a second end, a first roller disposed on the first end and configured to be pivotably

attached to said first end cap, and a second roller disposed on the second end cap;

a lower channel having a first end, a second end, a third roller disposed on the first end and configured to be pivotably attached to said second end cap; and

a gas spring rotatably attached at a first end to said upper channel and adjustably attached at a second end to said first end cap, wherein said gas spring is configured to retain said upper channel, said lower channel, said first end cap and said second end cap in a parallelogram shape when the device is positioned.

8. (Amended) The extension arm of claim 6, wherein said first end cap further includes:

a clevis pivotably attached to the second end of said gas spring; and

a rod in a threaded engagement with said clevis, wherein said clevis is configured to slide within said first end cap when said rod rotates around its axial centerline.

10. (Amended) The extension arm of claim 9, wherein the first end of said rod has a shaped opening and is configured to rotate around its axis when a shaped key is inserted in said shaped opening and is turned.

32. (Amended) The extension arm of claim 31, wherein each said end cap is pivotably attached to each said channel by inserting a pin inserted through each said hole in each said end cap into each said respective hole in each said roller.

38. (Amended) An extension arm for adjustably mounting a device to a support mount, said extension arm comprising:

a forearm extension having a first end for attachment to the device and a second end;

a first end cap for pivotable attachment pivotably attached to the support mount;

a second end cap pivotably attached to the second end of said forearm extension;

an upper channel having a first roller at a first end and a second roller at a second end, wherein said rollers are integrally cast with said upper channel, said first roller configured to be pivotably attached to said first end cap and said second roller configured to be pivotably attached to said second end cap;

a lower channel having a third roller at a first end and a fourth roller at a second end, wherein said rollers are integrally cast with said lower channel, said third roller configured to be pivotably attached to said first end cap and said fourth roller configured to be pivotably attached to said second end cap; and

a gas spring rotatably attached at a first end to said upper channel and adjustably attached at a second end to said first end cap, wherein said gas spring is configured to retain said channels and said end caps in a parallelogram shape when the device is positioned.

47. (Amended) The extension arm of claim 46, wherein each said end cap is pivotably attached to each said channel by inserting a pin inserted through each said hole in each said end cap and into each said respective hole in each said roller.

48. (Amended) The extension arm of claim 38, wherein said first end cap includes a first end cap body and a first end cap shaft, said first end cap shaft for pivotable attachment pivotably attached to the support mount, and said second end cap includes a second end cap body and a second end cap shaft, said second end cap shaft pivotably attached to the second end of said forearm extension.

57. (Amended) An extension arm for adjustably mounting a device to a support mount, said extension arm comprising:

a forearm extension having means for attachment to the device disposed at a first end and a second end coupling disposed at a second end;



a first end cap for pivotable attachment pivotably attached to the support mount;

a second end cap having a second end cap shaft fixedly attached thereto, said second end cap shaft pivotably received within ~~attached to~~ said coupling of said forearm extension, whereby said forearm extension is pivotable about said second end cap shaft overlying said second end cap between a plurality of radial positions;

an upper channel having a first roller at a first end and a second roller at a second end, wherein said first roller is configured to be pivotably attached to said first end cap and said second roller is configured to be pivotably attached to said second end cap;

a lower channel having a third roller at a first end and a fourth roller at a second end, wherein said third roller is configured to be pivotably attached to said first end cap and said fourth roller is configured to be pivotably attached to said second end cap; and

a gas spring rotatably attached at a first end to said upper channel and adjustably attached at a second end to said first end cap, wherein said gas spring is configured to retain said upper channel, said lower channel, said first end cap and said second end cap in a parallelogram shape when the device is positioned, wherein at least one of said radial positions of said forearm extension is arranged overlying said upper channel.

59. (Amended) The extension arm of claim 58, wherein said second end ~~female~~-coupling has a set screw contained in a sidewall of the coupling.

60. (Amended) The extension arm of claim 58, wherein an inner surface of said second end ~~female~~-coupling has a plurality of grooves formed therein.

61. (Amended) The extension arm of claim 57, wherein said means for attachment connecting is a first end coupling.



64. (Amended) The extension arm of claim 62, wherein an inner surface of said first end ~~female~~-coupling has a plurality of grooves formed therein.

65. (Amended) The extension arm of claim 6157, wherein said forearm extension includes a U-shaped channel disposed between said first end coupling~~means for attachment~~ and said second end coupling.

67. (Amended) The extension arm of claim 6561, wherein said first end coupling has a first axial centerline and said second end coupling has a second axial centerline and the first axial centerline and the second axial centerline are parallel to each other.

69. (Amended) The extension arm of claim 68, wherein a first centerline of said first end coupling and a second centerline of said second end coupling are aligned with the longitudinal centerline of said U-shaped channel.

70. (Amended) The extension arm of claim 6769, wherein when the first axial centerline and the second axial centerline are vertically disposed, said U-shaped channel is disposed therebetween at an angle.

71. (Amended) The extension arm of claim 6769, wherein when the first axial centerline and the second axial centerline are vertically disposed, said U-shaped channel is horizontally disposed therebetween.

72. (Amended) The extension arm of claim 6768, wherein a lower surface of said U-shaped channel is aligned with a first edge of said first end coupling and a first edge of said second end coupling.